**WHAT IS CLAIMED IS:**

1. A MPEG decoder having a controller that detects start codes in bitstreams received in said MPEG decoder, each of said start codes having a three-byte start code prefix and a one-byte start code value, said controller operable to (i) fetch a thirty-two bit word of a received bitstream, (ii) determine whether a start code prefix and a start code value are properly aligned within said thirty-two bit word, and (iii) if not properly aligned within said thirty-two bit word, determine whether the least significant byte of said thirty-two bit word may be part of said start code prefix.

2. The MPEG decoder as set forth in Claim 1 wherein said controller is further operable, if not part of said start code prefix, to fetch another thirty-two bit word of said received bitstream.

3. The MPEG decoder as set forth in Claim 2 wherein said controller is further operable to (iv) determine whether said start code prefix is within the three least significant bytes of said thirty-two bit word.

4. The MPEG decoder as set forth in Claim 2 wherein said controller is further operable to (iv) determine whether part of said start code prefix may be within the most significant byte of a next thirty-two bit word.

5. The MPEG decoder as set forth in Claim 4 wherein said controller is further operable to fetch said next thirty-two bit word of said received bitstream.

6. The MPEG decoder as set forth in Claim 4 wherein said controller is further operable to (v) determine whether part of said start code prefix is within the two least significant bytes of said thirty-two bit word and the most significant byte of said next thirty-two bit word.

7. The MPEG decoder as set forth in Claim 4 wherein said controller is further operable to (v) determine whether part of said start code prefix is within the least significant byte of said thirty-two bit word and the two most significant bytes of said next thirty-two bit word.

8. A digital video recorder capable of playing back a recorded program stream, said digital video recorder comprising:

a video processor capable of receiving an incoming program stream and converting said incoming program stream to a baseband signal capable of being displayed on a television associated with said digital video recorder;

a storage disk capable of storing program streams for time-shifted viewing; and

a MPEG decoder capable of decoding received bitstreams and generating PES packets, said MPEG decoder having a controller that detects start codes in said received bitstreams, each of said start codes having a three-byte start code prefix and a one-byte start code value, said controller operable to (i) fetch a thirty-two bit word of a received bitstream, (ii) determine whether a start code prefix and a start code value are properly aligned within said thirty-two bit word, and (iii) if not properly aligned within said thirty-two bit word, determine whether the least significant byte of said thirty-two bit word may be part of said start code prefix.

9. The digital video recorder as set forth in Claim 8 wherein said controller is further operable, if not part of said start code prefix, to fetch another thirty-two bit word of said recorded bitstream.

10. The digital video recorder as set forth in Claim 9 wherein said controller is further operable to (iv) determine whether said start code prefix is within the three least significant bytes of said thirty-two bit word.

11. The digital video recorder as set forth in Claim 9 wherein said controller is further operable to (iv) determine whether part of said start code prefix may be within the most significant byte of a next thirty-two bit word.

12. The digital video recorder as set forth in Claim 11 wherein said controller is further operable to fetch said next thirty-two bit word of said received bitstream.

13. The digital video recorder as set forth in Claim 11 wherein said controller is further operable to (v) determine whether part of said start code prefix is within the two least significant bytes of said thirty-two bit word and the most significant byte of said next thirty-two bit word.

14. The digital video recorder as set forth in Claim 11 wherein said controller is further operable to (v) determine whether part of said start code prefix is within the least significant byte of said thirty-two bit word and the two most significant bytes of said next thirty-two bit word.

15. A method of detecting start codes in bitstreams received in a MPEG decoder, each of said start codes having a three-byte start code prefix and a one-byte start code value, said method comprising the steps of:

(i) fetching a thirty-two bit word of a received bitstream;

(ii) determining whether a start code prefix and a start code value are properly aligned within said thirty-two bit word; and

(iii) if not properly aligned within said thirty-two bit word, determining whether the least significant byte of said thirty-two bit word may be part of said start code prefix.

16. The method as set forth in Claim 15 further comprising the step of (iv) determining whether said start code prefix is within the three least significant bytes of said thirty-two bit word.

17. The method as set forth in Claim 15 further comprising the step of (iv) determining whether part of said start code prefix may be within the most significant byte of a next thirty-two bit word.

18. The method as set forth in Claim 17 further comprising the step of fetching said next thirty-two bit word of said received bitstream.

19. The method as set forth in Claim 15 further comprising the step of (v) determining whether part of said start code prefix is within the two least significant bytes of said thirty-two bit word and the most significant byte of a next thirty-two bit word.

20. The method as set forth in Claim 15 further comprising the step of (v) determining whether part of said start code prefix is within the least significant byte of said thirty-two bit word and the two most significant bytes of a next thirty-two bit word.